

Application No. 10/539,562

Trever with Examiner



Agenda

- Overview of Claimed System and Method
- Differences in References

Draft Claim Amendment (temperature regulation of slides in continuous loading system)



- 75. (Currently Amended) An automated sample processing system for processing at least one sample on at least one carrier according to a processing protocol, comprising:
- at least one removable reagent container positioned within a first plurality of drawers in a reagent section;
- carrier section[[s]], respectively, the at least two carrier sections being separated by being positioned within a second and a third plurality of drawers in at least two one carrier retention devices for retaining said sample during said processing, the devices the reagent section;
- an active temperature regulation element to which said at least one sample is responsive, wherein said active temperature regulation element regulates the temperature of said at least one sample at a set point and to within a tolerance specified by the protocol;
- a moveable robotic member for dispensing fluid on the at least one carrier; wherein the at least one carrier is inserted or removed during the processing protocol without interrupting a processing of another sample movement of the robotic member.

drawers of continuous loading system) (temperature regulation of reagents in Oraft Claim Amendment



102. (Currently Amended) An automated sample processing system for processing at least one sample on at least one carrier according to a processing protocol, comprising:

at least one container having a reagent therein positioned within a first plurality of drawers in a reagent section for application to said at least one sample during said processing;

devices being positioned within a second and a third plurality of drawers in at least two carrier sections, respectively, the at least two carrier sections being separated by the carrier retention devices for retaining said sample during said processing, the reagent section;

a reagent temperature control element to which said reagent in said at least one container is responsive;

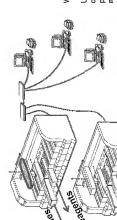
responsive, wherein said sample temperature control element regulates the temperature of said at least one sample at a set point and to within a tolerance specified by the a sample temperature control element to which said at least one sample is protocol; and

a moveable robotic member for dispensing fluid on the at least one carrier; wherein the at least one carrier is inserted or removed during the processing protocol without interrupting movement of the robotic member

Continuous Workflow Stainer Network vs. Batch Mode Systems Cited

Applicant – continuous staining network

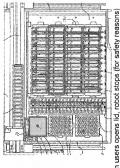
insert/remove slide racks & reagent racks while robot continues processing other racks



continuing to process nsert/remove while software monitors



Kalra - batch staining



When users opens lid, robot stops (for safety reasons)

User can request to load stat or continuous slides wherein insertion must stop moving and apparatus completes processing on a processing of other slides in other trays since dispensing robot or removal of slides/reagents necessarily interrupts robotic tray and then signals user

Reichler - batch processing

slides communicate via protocol for inserted

network

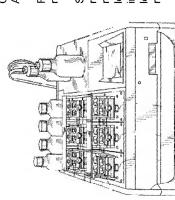


Dispensing robot must be interrupted to load or Dako Batch Slide Loading - Kalra unioad



Independent fluidic manifold-based sample processing system





Custance – cited by Examiner in Office Action as primary103(a) reference

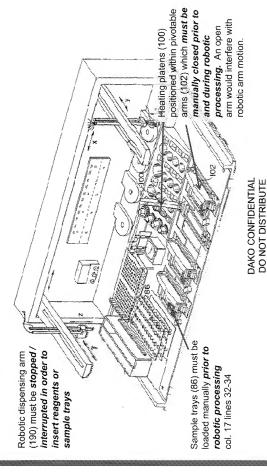
Regulates temperature of samples, but not reagents

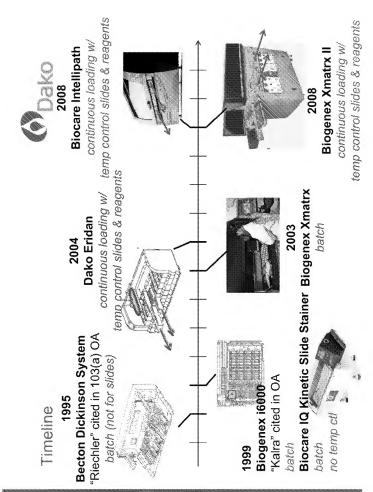
System has no robotic dispenser nor robotic motion. Rather it is a fluidic manifold-based system not suitable loading batches of sample carriers either in historical batch mode or continuous loading batches since samples are loaded manually into processing chambers

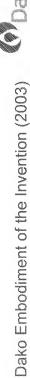
Not combinable with system using robotic dispensing of reagents,

Dispensing robot must be interrupted to load or unload reagents and slides) Batch Slide Loading - Reichler





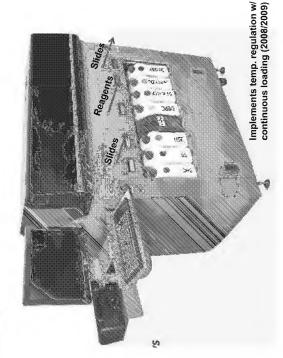






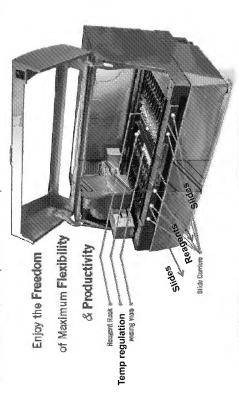
Competitors have recently implemented Dako Invention (2008/2009)





Competitors have recently implemented Dako Invention (2008/2009)





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